

DUSP6 / MKP3 Antibody (C-Term)

Peptide-affinity purified goat antibody Catalog # AF3910a

Specification

DUSP6 / MKP3 Antibody (C-Term) - Product Information

Application WB, E **Primary Accession** 016828

Other Accession NP 001937.2, NP 073143.2, 1848, 67603

(mouse), 116663 (rat)

Reactivity Human, Mouse, Rat, Pig Predicted Dog

Host Goat Clonality **Polyclonal** Concentration 0.5 mg/ml Isotype laG Calculated MW 42320

DUSP6 / MKP3 Antibody (C-Term) - Additional Information

Gene ID 1848

Other Names

Dual specificity protein phosphatase 6, 3.1.3.16, 3.1.3.48, Dual specificity protein phosphatase PYST1, Mitogen-activated protein kinase phosphatase 3, MAP kinase phosphatase 3, MKP-3, DUSP6, MKP3, PYST1

Dilution

WB~~1:1000 E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DUSP6 / MKP3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

DUSP6 / MKP3 Antibody (C-Term) - Protein Information

Name DUSP6

Synonyms MKP3, PYST1



Function

Dual specificity protein phosphatase, which mediates dephosphorylation and inactivation of MAP kinases (PubMed:8670865). Has a specificity for the ERK family (PubMed:8670865). Plays an important role in alleviating chronic postoperative pain (By similarity). Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (By similarity). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain (By similarity). Promotes cell differentiation by regulating MAPK1/MAPK3 activity and regulating the expression of AP1 transcription factors (PubMed:29043977).

Cellular Location Cytoplasm.

Tissue Location

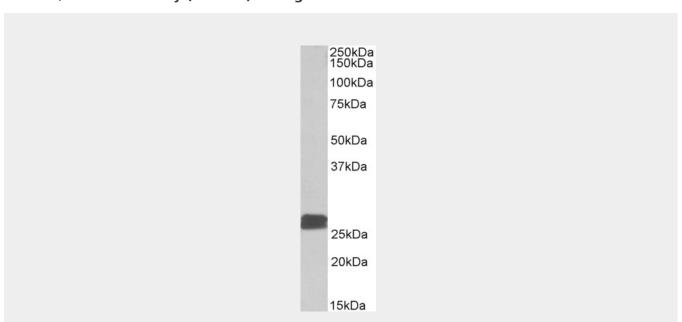
Expressed in keratinocytes (at protein level).

DUSP6 / MKP3 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DUSP6 / MKP3 Antibody (C-Term) - Images



AF3910a (0.3 μ g/ml) staining of Human Heart lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

DUSP6 / MKP3 Antibody (C-Term) - Background



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This antibody is expected to recognize both reported isoforms (NP_001937.2; NP_073143.2).

DUSP6 / MKP3 Antibody (C-Term) - References

Signal integration and coincidence detection in the mitogen-activated protein kinase/extracellular signal-regulated kinase (ERK) cascade: concomitant activation of receptor tyrosine kinases and of LRP-1 leads to sustained ERK phosphorylation via down-regu Geetha N, Mihaly J, Stockenhuber A, Blasi F, Uhrin P, Binder BR, Freissmuth M, Breuss JM. J Biol Chem. 2011 Jul 22;286(29):25663-74. PMID: 21610072